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INFORMATION REPORT

CD NO.

COUNTRY Germany (Russian Zone)

SUBJECT Research Undertaken by Professor
Ritschl of the Berlin University

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1. Professor Pitschke was formerly active with the National Physical Institute (Physikalische Reichsanstalt) in Berlin. Since 1 April 1949, he has been employed as professor of physics at the Humboldt University in Berlin and there has taken over the direction of the Second Physical Institute, Invalidenstrasse 46. He is presently working on the following projects:
 - a. Development of a microphotometer for quantitative spectroanalysis (photographic plate measurement of spectrum analysis). The estimated cost of this project is DM 3000.
 - b. Development and construction of a Röntgen double spectrograph. A focusing Röntgen spectrograph did not exist before. The new mechanism is to consist of a transparent crystal and a reflecting crystal. For longer waves, there is a combination of two reflecting crystals to be used in spectrum analysis such as the determination of the size of crystals (experiments on the structure of metals). The cost of this experiment is DM 4500.
 - c. An electron microscope with photo cathode. A considerable increase in the enlargement has been attained as a result of more recent investigations about electron microscopes according to the emission method through field emission, (Dahlem investigations concerning peak radiation and direct field emission). A sizeable increase of emission may be expected through use of the photo effect or the exposure of the cathode to ultra-violet light. Cost DM 8500.

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